

Claim 28, line 2, after "is" insert -- also --

Claim 31, line 13, after "direction" insert

-- at least --

line 14, cancel "second" and insert

-- other --

Claim 34, line 3, before "center" insert -- fixed --

line 4, after "for" insert -- separate --

line 5, before "center" insert -- fixed --

Please add the following claims:

Claim ~~2~~ (amended). [A combination as set forth
in Claim 1 wherein] In an oscillating transmission;
a ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to
contact said actuating means to reverse rotation from
one direction to the other, said contact means being
two contact members, means mounting said two contact
10 members for relative movement to vary the angle at
which said actuating means is actuated, one contact
member being mounted for rotation by said ring gear,
means for mounting the other contact member for
rotation within said ring gear, connecting means
15 connecting said other contact member to said ring
gear for being driven thereby to contact said
actuating means to reverse rotation of said ring
gear, said connecting means disconnecting said other
contact member from said ring gear when said other
20 contact member is rotated to vary the angle between

the other contact member and said one contact member,
said other contact member and said actuating means [have]
having locking means therebetween providing a locking
engagement for preventing movement between said other
25 contact member and said ring gear when said ring gear
[drives] places said other contact member against said
actuating means to drive it.

Claim 3 (amended). [A combination as set forth
in Claim 1 wherein] In an oscillating transmission; a
ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to con-
tact said actuating means to reverse rotation from one
direction to the other, said contact means being two
contact members, means mounting said two contact members
10 for relative movement to vary the angle at which said
actuating means is actuated, one contact member being
mounted for rotation by said ring gear, means for
mounting the other contact member for rotation within
said ring gear, connecting means connecting said other
15 contact member to said ring gear for being driven
thereby to contact said actuating means to reverse
rotation of said ring gear, said connecting means
disconnecting said other contact member from said ring
gear when said other contact member is rotated to vary
20 the angle between the other contact member and said one
contact member, said connecting means [provides] providing

for movement between said other contact member and said ring gear when said other contact member is rotated with respect to said ring gear.

5 *Q* Claim 4 (amended). [A combination as set forth in Claim 1 wherein] In an oscillating transmission; a ring gear mounted for rotation; means for oscillating said ring gear including actuating means for reversing rotation of said ring gear from one direction to the other, contact means rotated by said ring gear to contact said actuating means to reverse rotation from one direction to the other, said contact means being two contact members, means mounting said two contact
10 members for relative movement to vary the angle at which said actuating means is actuated, one contact member being mounted for rotation by said ring gear, means for mounting the other contact member for rotation within said ring gear, connecting means connecting said
15 other contact member to said ring gear for being driven thereby to contact said actuating means to reverse rotation of said ring gear, said connecting means disconnecting said other contact member from said ring gear when said other contact member is rotated to vary
20 the angle between the other contact member and said one contact member; said ring gear [is] being fixedly mounted on a hollow shaft having an output end, a cap fixed on the output end, shaft means extending through said cap into said hollow shaft engaging said means for mounting
25 the other contact member for rotation within said ring

gear to rotate said other contact member.

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Claim 8 (amended). [A combination as set forth
in Claim 4 wherein] In an oscillating transmission;
a ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to contact
said actuating means to reverse rotation from one direc-
tion to the other, said contact means being two contact
members, means mounting said two contact members for
10 relative movement to vary the angle at which said
actuating means is actuated, one contact member being
mounted for rotation by said ring gear, means for mounting
the other contact member for rotation within said ring
gear, connecting means connecting said other contact
15 member to said ring gear for being driven thereby to
contact said actuating means to reverse rotation of said
ring gear, said connecting means disconnecting said other
contact member from said ring gear when said other
contact member is rotated to vary the angle between the
20 other contact member and said one contact member; said
ring gear being fixedly mounted on a hollow shaft having
an output end, cap means rigidly fixed on the output
end, shaft means extending through said cap means into
said hollow shaft engaging said means for mounting the
25 other contact member for rotation within said ring gear
to rotate said other contact member, said cap means [has]
having a top surface thereon, said top surface having

Q 30 indicia for indicating the angular movement of said cap means, [an arrowhead] a first indicating means on said top surface indicates one end of said angular movement while the end of said shaft means which extends through said cap [member] means has [an arrowhead] a second indicating means for indicating the other end of said angular movement.

Q 5 Claim 7 (amended). [A combination as set forth in Claim 1 wherein] In an oscillating transmission; a ring gear mounted for rotation; means for oscillating said ring gear including actuating means for reversing rotation of said ring gear from one direction to the other, contact means rotated by said ring gear to contact said actuating means to reverse rotation from one direction to the other, said contact means being two contact members, means mounting said two contact members for relative movement to vary the angle at which said actuating means is actuated, one contact member being mounted for rotation by said ring gear, means for mounting the other contact member for rotation within said ring gear, connecting means connecting said other contact member to said ring gear for being driven thereby to contact said actuating means to reverse rotation of said ring gear, said connecting means disconnecting said other contact member from said ring gear when said other contact member is rotated to vary the angle between the other contact member and said one contact member, said ring gear [has] having an inner

cylindrical surface, serration means positioned
around said inner cylindrical surface, said other
contact member comprising a radial projection means
25 extending from said means for mounting the other contact
member, said connecting means comprising a pointer on
said radial projection means engaging a serration of
said serration means, movement of said ring gear in one
direction driving said radial projection means to contact
30 said actuating means.

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Claim 8 (amended). [A combination as set forth
in Claim 7 wherein] In an oscillating transmission;
a ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to
contact said actuating means to reverse rotation from
one direction to the other, said contact means being
two contact members, means mounting said two contact
10 members for relative movement to vary the angle at which
said actuating means is actuated, one contact member
being mounted for rotation by said ring gear, means for
mounting the other contact member for rotation within
said ring gear, connecting means connecting said other
15 contact member to said ring gear for being driven thereby
to contact said actuating means to reverse rotation of
said ring gear, said connecting means disconnecting said
other contact member from said ring gear when said other
contact member is rotated to vary the angle between the

20 other contact member and said one contact member, said
ring gear having an inner cylindrical surface, serration
means positioned around said inner cylindrical surface,
said other contact member comprising a radial projection
means extending from said means for mounting the other
25 contact member, said connecting means comprising a
pointer on said radial projection means engaging a
serration of said serration means, movement of said
ring gear in one direction driving said radial projection
means to contact said actuating means, said pointer [is]
30 being movable over said serrations from one to the other
for disconnecting said other contact member from said
ring gear when said other contact member is rotated to
vary the angle.

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Claim ~~10~~ (amended). [A combination as set forth
in Claim 1 wherein] In an oscillating transmission; a
ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to con-
tact said actuating means to reverse rotation from one
direction to the other, said contact means being two
contact members, means mounting said two contact members
10 for relative movement to vary the angle at which said
actuating means is actuated, one contact member being
mounted for rotation by said ring gear, means for mounting
the other contact member for rotation within said ring
gear, connecting means connecting said other contact

15 member to said ring gear for being driven thereby
to contact said actuating means to reverse rotation
of said ring gear, said connecting means disconnecting
said other contact member from said ring gear when said
other contact member is rotated to vary the angle between
20 the other contact member and said one contact member,
said means for mounting the other contact member for
rotation within said ring gear [comprises] comprising
a cylindrical member located radially inwardly from
said ring gear, said other contact member being fixed
25 to said cylindrical member and extending radially
outwardly therefrom, said other contact member having
an outer radial end, said connecting means connecting
the outer radial end of said other contact member to
said ring gear, said ring gear being fixedly mounted
30 on a hollow shaft, said hollow shaft having an output
end, said cylindrical member being mounted for rotation
with said hollow shaft.

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Claim 21 (amended). [A combination as set forth
in Claim 10 wherein] In an oscillating transmission;
a ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to contact
said actuating means to reverse rotation from one direc-
tion to the other, said contact means being two contact
members, means mounting said two contact members for
10 relative movement to vary the angle at which said

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15 actuating means is actuated, one contact member being
mounted for rotation by said ring gear, means for
mounting the other contact member for rotation within
said ring gear, connecting means connecting said other
contact member to said ring gear for being driven
thereby to contact said actuating means to reverse
rotation of said ring gear, said connecting means
disconnecting said other contact member from said
20 ring gear when said other contact member is rotated
to vary the angle between the other contact member
and said one contact member, said means for mounting
the other contact member for rotation within said ring
gear comprising a cylindrical member, said ring gear
being fixedly mounted on a hollow shaft having an
25 output end, said cylindrical member being mounted for
rotation with said hollow shaft, said cylindrical
member [extends] extending through said hollow shaft
out of said output end, means for turning said cylindri-
cal member to rotate said other contact member.

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Claim ~~13~~ (amended). [A combination as set forth
in Claim 1 wherein] In an oscillating transmission;
a ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to
contact said actuating means to reverse rotation from
one direction to the other, said contact means being
two contact members, means mounting said two contact

10 members for relative movement to vary the angle at
which said actuating means is actuated, one contact
member being mounted for rotation by said ring gear,
means for mounting the other contact member for rotation
within said ring gear, connecting means connecting said
15 other contact member to said ring gear for being driven
thereby to contact said actuating means to reverse
rotation of said ring gear, said connecting means
disconnecting said other contact member from said ring
gear when said other contact member is rotated to vary
20 the angle between the other contact member and said one
contact member; said ring gear [is] being fixedly mounted
on a hollow shaft having an output end, a cap fixed on
the output end, said cap having a nozzle opening therein,
means for directing liquid through said hollow shaft to
25 said nozzle opening.

Claim ¹⁹~~14~~ (amended). [A combination as set forth
in Claim 1 having] In an oscillating transmission; a
ring gear mounted for rotation; means for oscillating
said ring gear including actuating means for reversing
5 rotation of said ring gear from one direction to the
other, contact means rotated by said ring gear to
contact said actuating means to reverse rotation from
one direction to the other, said contact means being
two contact members, means mounting said two contact
10 members for relative movement to vary the angle at
which said actuating means is actuated, one contact
member being mounted for rotation by said ring gear,

means for mounting the other contact member for
rotation within said ring gear, connecting means
15 connecting said other contact member to said ring
gear for being driven thereby to contact said actuating
means to reverse rotation of said ring gear, said
connecting means disconnecting said other contact
member from said ring gear when said other contact
member is rotated to vary the angle between the other
contact member and said one contact member, second
connecting means connecting said other contact member
to said ring gear for being driven thereby to contact
said actuating means to reverse rotation of said ring
25 gear, said second connecting means disconnecting said
other contact member from said ring gear when said
other contact member is rotated to vary the angle
between the other contact member and said one contact
member.

Claim ²⁴20 (amended). An oscillating transmission
as set forth in Claim ²³19 wherein said second contact
means and said first actuating contact surface have a
[locking] mating engagement when said output gear
5 means drives said second contact means against said
first actuating contact surface locking said output
gear means to said second contact means.

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Claim ²⁹24 (amended). A combination as set forth in Claim ²⁸23 wherein said outer cap member has a top surface thereon, said top surface having indicia for indicating the angular movement of said outer cap member, [an arrowhead] a first indicating means on said top surface indicates one end of said angular movement while the end of said shaft which extends through said outer cap member has [an arrowhead] a second indicating means for indicating the other end of said angular movement.

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Claim 32 (amended). An oscillating transmission having an output gear, said output gear having an axis, a gear cage with two drive gears, a first drive gear and a second drive gear for alternate driving engagement with said output gear to oscillate it, said first and second drive gears both being in continuous engagement with said output gear, an idler gear in engagement with said first drive gear, said second gear and said idler gear being spaced apart, an input gear located between said second gear and said idler gear, said gear cage being mounted for pivotal movement around the axis of said output gear, means for pivoting said gear cage to bring said second gear or said idler gear into engagement with said input gear to drive said output gear in one direction or the other.

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5 Claim 33 (amended). An oscillating transmission as set forth in Claim 32 [having] wherein said means for pivoting said gear cage has a toggle device mounted adjacent said gear cage for reversing its movement, said gear cage and toggle device being mounted for separate pivotal movement [about] around the same axis.

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5 Claim 38 (amended). An oscillating transmission as set forth in Claim 34 wherein said toggle device has overcenter spring means for biasing said toggle device in one direction or the other, said spring means [acting] being located between said fixed center cylindrical member and said toggle device acting outwardly on said toggle device.

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5 Claim 39. An oscillating transmission as set forth in Claim 34 wherein said gear cage has a bottom plate, said toggle device comprising a circular plate between said bottom plate and base member, said bottom plate and circular plate each having a co-axial center opening fitting over the center cylindrical member, said toggle device having overcenter spring means for biasing said circular plate in one direction or the other, said circular plate having a cut-out portion extending from
10 its center opening to a point radially outward therefrom, said spring means being located in said cut-out portion extending between said center cylindrical member and said midpoint of said circular plate for acting outwardly on said circular plate.

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Claim 40. An oscillating transmission having an output gear, means for mounting said output gear for rotation about an axis, a gear cage with two drive gears, a first drive gear and a second drive gear for alternate driving engagement with said output gear to oscillate it, means pivotally mounting said gear cage for movement, means for alternately pivoting said gear cage in one direction to drivingly engage said first drive gear with said output gear or in the other direction to drivingly engage said second drive gear with said output gear including spring means for biasing said gear cage in one direction or the other direction, said means for alternately pivoting said gear cage having a toggle device pivotally mounted with respect to said gear cage for reversing the movement of said gear cage, said gear cage and toggle device being mounted for separate pivotal movement, said toggle device comprising a plate pivotally mounted around the axis of said output gear, said spring means biasing said gear cage in one direction or the other direction through said plate, said spring means having fixed first spring seat means located radially inwardly of said plate, said plate having second spring seat means located radially outwardly on said plate, said spring means being located between said first spring seat means and said second spring seat means for acting outwardly on said plate to bias it in one direction or the other direction.

Claim 41. An oscillating transmission as set forth in Claim 40 wherein said spring means is located in a cut-out portion of said plate.

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Claim 42. A combination as set forth in Claim 2 wherein said locking means between said other contact member and said actuating means includes mating surfaces on said other contact member and said actuating means which maintain said other contact member and ring gear in locking engagement for preventing movement between said other contact member and said ring gear when said ring gear places said other contact member against said actuating means to drive it.

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Claim 43. An oscillating transmission having an output gear, said output gear being mounted for rotation in either direction, a gear cage having a first drive gear and a second drive gear for alternately driving said output gear to oscillate said output gear between a first and second angular position, means mounting said gear cage for movement between a first and second drivingly engaged position, means for alternately moving said gear cage in one direction to said first drivingly engaged position to drivingly engage said first drive gear with said output gear to drive said output gear in a direction to its second angular position and in the other direction to said second drivingly engaged position to drivingly engage said second drive gear with said output gear to drive said output gear in a direction to its first

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angular position, said means for alternately moving said gear cage including first biasing means for alternately biasing said gear cage in one direction or the other to its first or second drivingly engaged position, said means for alternately moving said gear cage removing the bias of said first biasing means from said gear cage during the movement of said output gear to its first or second angular position, and second biasing means for directly biasing said gear cage in said one direction towards its first drivingly engaged position to maintain said gear cage biased in said one direction when said first biasing means for biasing has been removed to move said gear cage in said other direction at least until said first biasing means is biasing said gear cage in said other direction.

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Claim 44. A combination as set forth in Claim 43 wherein said second biasing means is also for directly biasing said gear cage in said other direction towards its first drivingly engaged position to maintain said gear cage biased in said other direction when said first biasing means for biasing has been removed to move said gear cage in said one direction until said first biasing means is biasing said gear cage in said one direction.

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Claim 45. A combination as set forth in Claim 43 including a downward projection on said gear cage having a surface on which said second biasing means acts.

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Claim 46. A combination as set forth in
Claim 45 wherein said surface is contoured to vary
the effect of the second biasing means.

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Claim 47. In combination in a transmission, a
hollow output shaft having a radial flange with an
annular flange extending downwardly therefrom, an
internal ring gear formed around the inner surface
of said annular flange, serrations formed around the
inner surface of said annular flange between said
radial flange and said internal ring gear, gear means
engaging said internal ring gear for rotating said
hollow output shaft in one direction and then in the
other direction for oscillation, a toggle device means
for changing the direction of rotation of said hollow
output shaft at each end of a predetermined angle, said
toggle device means having actuating means to move said
toggle device means in one direction or the other, means
for mounting a cylindrical member for concentric rotation
with said hollow output shaft, said cylindrical member
having one end extending into said annular flange and
the other end extending downwardly therefrom, said one
end of said cylindrical member having a first radial
projection for contacting said actuating means and
moving it in one direction, said radial projection
having a pointer engaging one of said serrations, a
second projection mounted for rotation by said annular
flange for contacting said actuating means and moving
it in the other direction, a centerbody means connected

to the interior of said cylindrical member for
rotation therewith, and means for rotating said
centerbody means in relation to said hollow output
shaft which moves said cylindrical member with said
30 pointer overriding said serrations to vary the pre-
determined angle between the first radial projection
and second projection.

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Claim ~~40~~. In combination in a transmission, a
hollow output shaft having a radial flange with an
annular flange extending downwardly therefrom, an
internal ring gear formed around the inner surface
5 of said annular flange, serrations formed around the
inner surface of said hollow output shaft, gear means
engaging said internal ring gear for rotating said
hollow output shaft in one direction and then in the
other direction for oscillation, a toggle device means
10 for changing the direction of rotation of said hollow
output shaft at each end of a predetermined angle,
said toggle device means having actuating means to
move said toggle device means in one direction or the
other, means for mounting a cylindrical member for
15 concentric rotation with said hollow output shaft, said
cylindrical member having a first radial projection for
contacting said actuating means and moving it in one
direction, a second projection mounted for rotation by
said annular flange for contacting said actuating means
20 and moving it in the other direction, a centerbody means
connected to the interior of said cylindrical member

below said hollow output shaft for rotation therewith,
said centerbody means having short vanes projecting
therefrom into said hollow output shaft engaging said
25 serrations, and means for rotating said centerbody
means in relation to said hollow output shaft which
moves said cylindrical member with said short vanes
overriding said serrations to vary the predetermined
angle between the first radial projection and second
30 projection.

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Claim ~~49~~. In combination in a transmission, a
hollow output shaft having a first inner surface and
an outwardly extending radial flange with an annular
flange extending downwardly therefrom, said annular
5 flange having a second inner surface, an internal ring
gear formed on the inner surface of said annular flange,
serrations around one of said inner surfaces, gear means
engaging said internal ring gear for rotating said hollow
output shaft in one direction and then in the other
10 direction for oscillation, a toggle device means for
changing the direction of rotation of said hollow output
shaft at each end of a predetermined angle, said toggle
device means having actuating means to move said toggle
device means in one direction or the other, means for
15 mounting a cylindrical member for concentric rotation
with said hollow output shaft, said cylindrical member
having a first projection for contacting said actuating
means and moving it in one direction, a second projection
mounted for rotation by said annular flange for contacting

20 said actuating means and moving it in the other
direction, serration engaging means connecting said
cylindrical member and first projection to said
serrations, means for rotating said cylindrical member
and first projection in relation to said hollow output
25 shaft and annular flange to move said serration engaging
means to override said serrations to vary the angle
between said first projection and said second projection
to set them at a predetermined angle.

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Claim ⁴⁴~~50~~. A combination as set forth in
Claim ⁴³~~49~~ wherein said serrations are around the inner
surface of said annular flange, and said serration
engaging means is a pointer on said first projection
5 engaging one of said serrations.

Claim ⁴⁵~~51~~. A combination as set forth in Claim ⁴³~~49~~
wherein said serrations are around the inner surface of
said hollow output shaft, and said serration engaging
means is connected to said cylindrical member and has
5 vane means extending into said hollow output shaft
engaging said serrations.

Claim ⁴⁶~~52~~. A combination as set forth in Claim ⁴³~~49~~
wherein said means for rotating said cylindrical member
and first projection includes a shaft extending into
said hollow output shaft and engaging said cylindrical
5 member to set a predetermined angle between said first
projection and said second projection.

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Claim 53. A combination as set forth in Claim 52
including indicating means providing a visual representation of the predetermined angle at which said hollow output shaft is set to oscillate through.

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Claim 54. A combination as set forth in Claim 53
wherein a cap means is rigidly fixed on the hollow output shaft; said cap means having a top surface thereon; said shaft extending through said cap means to said top surface; said indicating means including indicia on said top surface for indicating the angular movement of said cap means, a first indicating means on said top surface indicating one end of said angular movement and a second indicating means on the end of said shaft for indicating the other end of said angular movement.

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Claim 55. A combination as set forth in Claim 54
wherein said cap means has a nozzle opening therein, means for directing liquid through said hollow shaft to said nozzle opening.

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Claim 56. A combination as set forth in Claim 55
wherein said first indicating means on said top surface is aligned with said nozzle opening.

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Claim ~~57~~. A combination as set forth in
Claim ~~57~~ ¹³ including nozzle means connected to the
end of said cylindrical member extending out of said
output end of said hollow shaft for angular movement
5 therewith, means for directing a liquid through said
cylindrical member to said nozzle means.

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Claim ~~58~~. A combination as set forth in Claim ~~57~~ ¹⁵
including indicating means providing a visual repre-
sentation of the predetermined angle at which said
nozzle means is set to oscillate through.

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Claim ~~59~~. A combination as set forth in Claim ~~58~~ ¹⁶
wherein said indicating means includes indicia movable
with said hollow shaft for indicating the angular
movement of said nozzle means, a first indicating means
5 connected to said hollow shaft for indicating one end
of said angular movement, and a second indicating means
connected to said nozzle means for indicating the other
end of said angular movement.

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Claim ~~60~~. A combination as set forth in Claim ~~4~~
wherein said cap has nozzle means therein, means for
directing liquid through said hollow shaft and said
nozzle means.

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Claim ~~61~~. A combination as set forth in Claim ~~60~~ ⁶
including indicating means providing a visual repre-
sentation of the predetermined angle at which said nozzle
means is set to oscillate through.

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Claim 62. An oscillating transmission comprising;

an input shaft means; an output gear means; a pivoted
gear cage having two drive gear means thereon, a first
clockwise drive gear means and a second counter-clockwise
5 drive gear means for alternate driving engagement with
said output gear means to oscillate it; said input shaft
means having a gear driving said two drive gear means,
said pivoted gear cage being pivotally mounted so that
in one position said first clockwise drive gear means
10 drivingly engages said output gear means and in a
second position said second counter-clockwise drive gear
means drivingly engages said output gear means; a first
spring means for biasing said gear cage to bias only one
of said drive gear means or the other into driving
15 engagement with said output gear means on only one side
of a first intermediate position between said driving
engagement positions of said drive gear means; toggle
means mounted for movement relative to said gear cage
between a cooperating first and second limit means on
20 said gear cage, said toggle means including second
overcenter spring means for biasing said toggle means
against said first or second limit means on said gear
cage on either side of a second intermediate position;
said first limit means, when biased by said second
25 overcenter spring means through said toggle means,
biasing one of said drive gear means of said gear cage
into driving engagement with said output gear means
along with said first spring means for rotating said
output gear means in one direction; said second limit

30 means, when biased by said second overcenter spring
means through said toggle means, biasing the other of
said drive gear means of said gear cage into driving
engagement with said output gear means alone for
rotating said output gear means in the other direction;
35 actuating means on said toggle means; said output gear
means having contact means to contact said actuating
means to move said toggle means in one direction over
said second intermediate position where the second
overcenter spring means will bias said toggle means to
40 its cooperating limit means and then bias the gear cage
against the bias of said first spring means; when the
gear cage is moved over said first intermediate position
the second overcenter spring means will bias said gear
cage to driving engagement changing the direction of
45 rotation of said output gear means whereby said contact
means of said output gear means will contact said
actuating means on said toggle means and move said toggle
means in the other direction over said second intermediate
position where the second overcenter spring means will
50 bias said toggle means to its other cooperating limit
means and then bias the gear cage; when the gear cage
is moved over said first intermediate position the first
spring means will join the second overcenter spring means
and bias said gear cage to driving engagement changing
55 the direction of rotation of said output gear means.